

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (Canceled)

2. (Canceled)

3. (Currently Amended) Drill to extract roots of teeth ~~to execute the methods according to claim 1, with a boring drill part (6) and comprising:~~

a shaft ~~(2), the~~ having a head (3) of which is provided with means for a rotatably connecting mounting in a drill device, ~~characterised in that the~~

a boring drill part (6) is provided with formed as a drill tool and including at least one helical groove,

a pin projection (8) arranged at its a forward end ,preferably of the drill part, the pin projection having a smaller diameter than the drill part and being approximately cylindrical, which is coated with an abrasive material (10) at its tip (9) and on the cylindrical sheath being arranged on the pin projection including at its tip, the pin projection including at least one helical groove extending to the at least one groove on the drill part, and

a taper arranged at a transition between the drill part and the pin projection.

4. (Currently Amended) Drill according to claim 3, ~~characterised in that~~ wherein the ~~cylindrical~~ pin projection (8) has a length of between 5 and 8 mm and a diameter of 1.3 to 1.6 mm.

5. (Currently Amended) Drill according to claim 3, ~~characterised in that~~ wherein the pin projection ~~(8)~~ has a length of at least approximately 6 mm and a diameter of at least approximately 1.3 mm.

6. (Currently Amended) Drill according to claim 3, ~~characterised in that~~ wherein the abrasive material of the pin projection ~~(8)~~ consists essentially of diamond dust.

7. (Currently Amended) Drill according to claim 3, ~~characterised in that~~ wherein the pin projection ~~(8)~~ is rounded at its abrasive the tip and there is a taper ~~(11)~~ at the transition from the drill part ~~(6)~~ to the projection ~~(8)~~.

8. (Currently Amended) Drill according to claim 3, ~~characterised in that~~ the diameter of the drill part ~~(6)~~ is at least approximately 2 mm and the total length of the drill part ~~(6)~~ together with the pin projection ~~(8)~~ is at least approximately 16 mm.

9. (Canceled)

10. (Currently Amended) Drill according to claim 3, ~~characterised in that the drill part (6)~~ has wherein the at least one helical groove ~~(7) carrying~~ of the drill part is arranged to carry away the drilled material and the pin projection ~~(8)~~ has at least one helical groove ~~(7')~~ extending to that on the drill part ~~(6)~~.

11. (New) Drill according to claim 3, wherein the at least one helical groove of the drill part comprises a plurality of helical grooves.

12. (New) Drill according to claim 11, wherein the at least one helical groove of the pin projection comprises a plurality of helical grooves.

13. (New) Drill according to claim 3, wherein the at least one helical groove of the pin projection comprises a plurality of helical grooves.

14. (New) Drill according to claim 3, wherein the pin projection is integrally attached to the drill part.

15. (New) Drill according to claim 3, wherein the transition has an angle of 90°.

16. (New) Drill according to claim 3, wherein the abrasive material is coated into the pin projection including the tip.

17. (New) Drill according to claim 3, wherein the at least one helical groove of the pin projection extends to a respective one of the at least one helical groove on the drill part and such that it traverses the taper between the drill part and the pin projection.

18. (New) Drill according to claim 3, wherein the drill part further includes at least one helical wound cutting edge.

19. (New) Drill according to claim 3, wherein the drill part further includes a plurality of helical wound cutting edges.

20. (New) Drill according to claim 3, wherein the pin projection includes a cylindrical sheath and the abrasive material is arranged on the cylindrical sheath.